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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,427	05/05/2004	Cheng-Yen Huang	FTCP0036USA	3426

27765 7590 11/08/2005

NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION  
P.O. BOX 506  
MERRIFIELD, VA 22116

EXAMINER
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PRENTY, MARK V

ART UNIT	PAPER NUMBER
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2822

DATE MAILED: 11/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/709,427

Applicant(s)

HUANG, CHENG-YEN

Examiner

MARK PRENTY

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☒ Claim(s) 1 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 May 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

This Office Action is in response to the response filed on October 26, 2005.

The specification is objected to because it does not identify Fig. 4's element 50. Correction is required.

The specification is objected to for describing Figs. 4-5's elements 52 as "lead frames." Elements 52 are apparently leads of a single lead frame. Correction is required (i.e., "lead frames 52" should read "leads 52").

The specification is objected to for describing Fig. 6's elements 98 as "lead frames." Elements 98 are apparently leads of a single lead frame. Correction is required (i.e., "lead frames 98" should read "leads 98").

Independent claim 1 is objected to because "the bonding pads" (lines 5-6) lack antecedent basis. Correction is required.

Claims 1-8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter that was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Specifically, the disclosed and claimed first and second "package substrates" are unclear, particularly in the absence of cross-sectional and/or perspective views thereof. It appears from the Fig. 4 plan view that the first and second "package substrates" 58 and 60 are actually parts of a single lead frame that further comprises leads 52.

Claims 1-8, at least insofar as understood, are rejected under 35 U.S.C. 102(e) as being anticipated by United States Patent 6,822,319 to Lau et al. (Lau).

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With respect to independent claim 1, Lau discloses a leadframe (see the entire patent, particularly the Fig. 2A disclosure) comprising: first and second "package substrates" (i.e., the two conductive rings on lead frame pad 202); a chip 206 mounted on the leadframe pad 202, the chip comprising a plurality of bonding pads, one bonding pad being connected to the inner ring, another bonding pad being connected to the outer ring, and another bonding pad being connected to a lead 203.

Claim 1, at least insofar as understood, is thus rejected under 35 U.S.C. 102(e) as being anticipated by Lau.

With respect to dependent claims 2 and 3, Lau's two rings are connected to a high (power) and/or low (ground) voltage (see column 1, lines 32-34).

Claims 2 and 3, at least insofar as understood, are thus rejected under 35 U.S.C. 102(e) as being anticipated by Lau.

With respect to dependent claims 4 and 5, some of Lau's bonding pads are connected to input/output leads 203.

Claims 4 and 5, at least insofar as understood, are thus rejected under 35 U.S.C. 102(e) as being anticipated by Lau.

With respect to dependent claim 6, Lau's two rings have different voltages (see column 1, lines 32-34).

Claim 6, at least insofar as understood, is thus rejected under 35 U.S.C. 102(e) as being anticipated by Lau.

With respect to dependent claim 7, Lau's two rings extend outside of and surround the chip 206.


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Claim 7, at least insofar as understood, is thus rejected under 35 U.S.C. 102(e) as being anticipated by Lau.

With respect to dependent claim 8, Lau's two rings substantially approximate each of the bonding pads.

Claim 8, at least insofar as understood, is thus rejected under 35 U.S.C. 102(e) as being anticipated by Lau.

Registered practitioners can telephone the examiner at (571) 272-1843. Any voicemail message left for the examiner must include the name and registration number of the registered practitioner calling, and the Application/Control (Serial) Number. Technology Center 2800's general telephone number is (571) 272-2800.

  
Mark V. Prenty  
Primary Examiner